

EX. SEARCH NOTES

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 2, 2004, 21:20:01 ; Search time 1549 Seconds
(without alignments)
2602.261 Million cell

updates/sec

Title: US-09-843-377-3_COPY_1000_1092
Perfect score: 93
Sequence: 1 gagctggggagcattccattc.....ctccagaaaacattgaggtg 93

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 1603530

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl.*
1: gb_ba.*
2: gb_htg.*
3: gb_in.*
4: gb_om.*
5: gb_ov.*
6: gb_pat.*
7: gb_ph.*
8: gb_pl.*
9: gb_pr.*
10: gb_ro.*
11: gb_sta.*
12: gb_sy.*
13: gb_un.*
14: gb_vi.*
15: em_ba.*
16: em_fun.*
17: em_hum.*
18: em_in.*
19: em_mu.*
20: em_om.*
21: em_or.*
22: em_ov.*
23: em_pat.*
24: em_ph.*
25: em_pl.*
26: em_ro.*
27: em_sta.*
28: em_un.*
29: em_vi.*
30: em_htg_hum.*
31: em_htg_inv.*
32: em_htg_other.*
33: em_htg_mus.*
34: em_htg_pln.*
35: em_htg_rnd.*
36: em_htg_mam.*
37: em_htg_vrt.*
38: em_sy.*
39: em_htgo_hum.*
40: em_htgo_mus.*
41: em_htgo_other.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB ID	Description	
1	18.6	20.0	45	6 AR078468	AR078468	
Sequence 2	17.2	18.5	30	6 A11493	A11493	
Nucleotide 3	17	18.3	49	6 AX404630	AX404630	
Sequence 4	16.8	18.1	50	6 AX159154	AX159154	
Sequence 5	16.6	17.8	30	6 AR093240	AR093240	
Sequence c 6	16.6	17.8	34	11 C75763	C75763 Homo	
sapien c 7	16.6	17.8	39	6 I44807	I44807 Sequence	
31	8	16.6	17.8	49	6 I79331	I79331 Sequence
34	9	16.6	17.8	50	6 AR125663	AR125663
Sequence 10	16.6	17.8	50	6 I47075	I47075 Sequence	
5	c 11	16.4	17.6	47	6 AR149818	AR149818
Sequence c 12	16.4	17.6	47	6 AR289717	AR289717	
Sequence c 13	16.4	17.6	47	6 BD007169	BD007169	
Improved 14	16.4	17.6	50	6 AX159152	AX159152	
Sequence c 15	16.2	17.4	40	6 AR078049	AR078049	
Sequence						

16	16.2	17.4	47	6 AR288877	AR288877	
Sequence 17	16.2	17.4	48	9 HSTCRA2J	Z28346	
H.sapiens (18	16.2	17.4	48	9 S74027	S74027 TCR	
alpha V c 19	16.2	17.4	50	6 AR356512	AR356512	
Sequence 20	16	17.2	41	6 AX513847	AX513847	
Sequence c 21	16	17.2	41	6 AX514818	AX514818	
Sequence c 22	16	17.2	41	6 AX517176	AX517176	
Sequence 23	16	17.2	41	6 AX517724	AX517724	
Sequence c 24	16	17.2	50	6 AX199602	AX199602	
Sequence c 25	16	17.2	50	9 AF044111	AF044111 Homo	
sapi c 26	15.8	17.0	39	6 BD263040	BD263040	
Vectors f c 27	15.8	17.0	40	6 AR127202	AR127202	
Sequence c 28	15.8	17.0	40	6 BD130543	BD130543	
Controlle c 29	15.8	17.0	42	6 AR109086	AR109086	
Sequence c 30	15.8	17.0	42	6 AR200741	AR200741	
Sequence c 31	15.8	17.0	44	6 I43354	I43354 Sequence	
8	32	15.8	17.0	47	6 AR289659	AR289659
Sequence 33	15.6	16.8	27	6 AX417271	AX417271	
Sequence 34	15.6	16.8	30	6 BD095102	BD095102 N-Type	
ca 35	15.6	16.8	33	6 AR022050	AR022050	
Sequence 36	15.6	16.8	33	6 I92840	I92840 Sequence	
14 37	15.6	16.8	35	6 E27408	E27408 Process	
for 38	15.6	16.8	43	6 BD190955	BD190955 DNA	
methy 39	15.6	16.8	43	9 F202550S09	AF202558 Homo	
sapi c 40	15.6	16.8	44	6 AX457962	AX457962	
Sequence c 41	15.6	16.8	47	6 AR284775	AR284775	
Sequence 42	15.6	16.8	48	6 AX805934	AX805934	
Sequence 43	15.6	16.8	50	6 AX157284	AX157284	
Sequence 44	15.4	16.6	25	6 AX609394	AX609394	
Sequence c 45	15.4	16.6	28	6 BD141779	BD141779 Novel	
G p						

ALIGNMENTS

RESULT 1
AR078468
LOCUS AR078468 45 bp DNA linear PAT 31-
AUG-2000
DEFINITION Sequence 8 from patent US 5962664.
ACCESSION AR078468
VERSION AR078468.1 GI:10005214
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 45)
Friedhoff,A.J., Basham,D.A. and Miller,J.C.
AUTHORS Psychosis protecting nucleic acid, peptides, compositions and
TITLE method of use
JOURNAL Patent: US 5962664-A 8 05-OCT-1999;
FEATURES Location/Qualifiers
source 1..45
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN

Query Match 20.0%; Score 18.6; DB 6; Length 45;
Best Local Similarity 84.0%; Pred. No. 4.2e+04;
Matches 21; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 10 GCACCTCCATTCTGCGCTGGGTGACAA 34
||||||| | ||||| | |||||
Db 4 GCACCTCCATCCAGCCTGGGCAACAA 28

RESULT 2
A11493
LOCUS A11493 30 bp DNA linear PAT 01-
DEC-1993
DEFINITION Nucleotide sequence 33 from patent number EP0170204.
ACCESSION A11493
VERSION A11493.1 GI:492477
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 30)
AUTHORS Hauptmann,R., Meindl,P., Dworkin-Rastl,E., Adolf,G.D.,
Swetly,P., Pieler,C. and Haeu1,N.
TITLE Genetic sequences, type I interferon peptide coded by them,
and

these organisms producing the same
 JOURNAL Patent: EP 0170204-A 33 05-FEB-1986;
 BOEHRINGER INGELHEIM INTERNATIONAL GmbH

FEATURES
 source Location/Qualifiers
 1..30
 /organism="unidentified"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32644"

ORIGIN
 Query Match 18.5%; Score 17.2; DB 6; Length 30;
 Best Local Similarity 86.4%; Pred. No. 1.4e+05;
 Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 7 GGAGCACTCCATTCTGCGCTGGG 28
 ||| ||||| ||||| |||
 Db 9 GGAGGACTCCATTCTGCGCTGTG 30

RESULT 3
 AX404630
 LOCUS AX404630 49 bp DNA linear PAT 14-
 JUN-2002
 DEFINITION Sequence 4 from Patent W00224745.
 ACCESSION AX404630
 VERSION AX404630.1 GI:21437911
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1
 AUTHORS Abken,H. and Schinkoethe,T.
 TITLE Method for detecting tumor cells
 JOURNAL Patent: WO 0224745-A 4 28-MAR-2002;
 Abken, Hinrich (DE)

FEATURES
 source Location/Qualifiers
 1..49
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

ORIGIN
 Query Match 18.3%; Score 17; DB 6; Length 49;
 Best Local Similarity 63.4%; Pred. No. 1.8e+05;
 Matches 26; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 5 TGGGAGCACTCCATTCTGCGCTGGGTGACAAATGCTTGGTTT 45
 ||| ||||| || ||| ||||| ||||| |||||
 Db 2 TGGAAAACCTCCACTCACCTTGTTCAGAGTGGGTGGGTT 42

RESULT 4
 AX159154
 LOCUS AX159154 50 bp DNA linear PAT 22-
 JUN-2001
 DEFINITION Sequence 2482 from Patent W00140521.
 ACCESSION AX159154
 VERSION AX159154.1 GI:14540485
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1
 AUTHORS Shimkets,R.A. and Leach,M.
 TITLE Nucleic acids containing single nucleotide polymorphisms and
 methods of use thereof
 JOURNAL Patent: WO 0140521-A 2482 07-JUN-2001;
 Curagen Corporation (US)

FEATURES
 source Location/Qualifiers
 1..50
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"
 misc_feature 25..26
 /note="Nucleotide deleted between bases 25 and 26
 Accession number cg39667412"
 misc_feature 26
 /note="2 of 2 allelic variants (2481 is other entry)"

ORIGIN
 Query Match 18.1%; Score 16.8; DB 6; Length 50;
 Best Local Similarity 61.4%; Pred. No. 2.2e+05;
 Matches 27; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

Qy 37 CCTTGGTTTCAACACTATCGGAATGTGACTGTGGGCTCCAGA 80
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 5 CCATGGCGTGCAACAGGGGACTGTCAATCAGCGCTTTCATA 48

RESULT 5
 AR093240
 LOCUS AR093240 30 bp DNA linear PAT 08-
 SEP-2000
 DEFINITION Sequence 14 from patent US 5998697.
 ACCESSION AR093240
 VERSION AR093240.1 GI:10019990
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 Unclassified.
 REFERENCE 1 (bases 1 to 30)
 AUTHORS Devlin,R.H.
 TITLE Transgenic fish and vectors therefor
 JOURNAL Patent: US 5998697-A 14 07-DEC-1999;
 FEATURES
 source Location/Qualifiers
 1..30
 /organism="unknown"

/mol_type="unassigned DNA"

ORIGIN
 Query Match 17.8%; Score 16.6; DB 6; Length 30;
 Best Local Similarity 82.6%; Pred. No. 2.4e+05;
 Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 17 ATTCCTGCGCTGGGTGACAAATGCT 39
 ||| ||||| ||||| ||||| |||||
 Db 7 ATCCAGCTCGATGACAAATGCT 29

RESULT 6
 C75763/c
 LOCUS C75763 34 bp DNA linear STS 12-
 FEB-1999
 DEFINITION Homo sapiens STS NIB517, DH PROBE, FORWARD PRIMER, sequence
 tagged
 site.
 ACCESSION C75763
 VERSION C75763.1 GI:3176205
 KEYWORDS STS; DH; Digital hybridization.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (sites)
 AUTHORS Asakawa,S. and Shimizu,N.
 TITLE High-fidelity digital hybridization screening
 JOURNAL Genomics 49 (2), 209-217 (1998)
 MEDLINE 98260670
 PUBMED 9598308
 REFERENCE 2 (bases 1 to 34)
 AUTHORS Asakawa,S. and Shimizu,N.
 TITLE Direct Submission
 JOURNAL Submitted (09-SEP-1997) Shuichi Asakawa, Keio University
 School of
 Medicine, Department of Molecular Biology; Shinanomachi 35,
 Shinjuku-ku, Tokyo 160, Japan (E-mail:asa@med.keio.ac.jp.
 Tel:81-3-3351-2370)

FEATURES
 source Location/Qualifiers
 1..34
 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="taxon:9606"

ORIGIN
 Query Match 17.8%; Score 16.6; DB 11; Length 34;
 Best Local Similarity 71.0%; Pred. No. 2.5e+05;
 Matches 22; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 5 TGGGAGCACTCCATTCTGCGCTGGGTGACAAAT 35
 || |||| ||||| ||||| ||||| |||||
 Db 31 TGTGAGCTAGTCAATCAGCGCTGTGTAAACAT 1

RESULT 7
 I44807/c
 LOCUS I44807 39 bp DNA linear PAT 07-
 OCT-1997
 DEFINITION Sequence 31 from patent US 5635599.
 ACCESSION I44807
 VERSION I44807.1 GI:2469520
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 Unclassified.
 REFERENCE 1 (bases 1 to 39)
 AUTHORS Pastan,I.H., Kreitman,R.J. and Puri,R.K.
 TITLE Fusion proteins comprising circularly permuted ligands
 JOURNAL Patent: US 5635599-A 31 03-JUN-1997;
 FEATURES
 source Location/Qualifiers
 1..39
 /organism="unknown"
 /mol_type="unassigned DNA"

ORIGIN
 Query Match 17.8%; Score 16.6; DB 6; Length 39;
 Best Local Similarity 71.0%; Pred. No. 2.5e+05;
 Matches 22; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 43 TTTCACACTATCGGAATGTGACTGTGCGGC 73
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 35 TCTCAACACTCACCGAGGTAAACGGTGGGC 5

RESULT 8
 I79331
 LOCUS I79331 49 bp DNA linear PAT 10-
 JUN-1998
 DEFINITION Sequence 34 from patent US 5707796.
 ACCESSION I79331
 VERSION I79331.1 GI:3207621
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 Unclassified.
 REFERENCE 1 (bases 1 to 49)
 AUTHORS Gold,L. and Beutel,B.
 TITLE Method for selecting nucleic acids on the basis of structure
 JOURNAL Patent: US 5707796-A 34 13-JAN-1998;
 FEATURES
 source Location/Qualifiers
 1..49
 /organism="unknown"
 /mol_type="unassigned DNA"

ORIGIN
 Query Match 17.8%; Score 16.6; DB 6; Length 49;
 Best Local Similarity 71.0%; Pred. No. 2.6e+05;

Matches 22; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 49 CACTATCGGAATGTGACTGTGGGCTCCAG 79
||||| ||| || ||||| ||| |||
Db 19 CACTATAGGGAGATGCTGTGCGAGCATGCTG 49

RESULT 9

ARI25663
LOCUS ARI25663 50 bp DNA linear PAT 16-
MAY-2001
DEFINITION Sequence 5 from patent US 6177557.
ACCESSION ARI25663
VERSION ARI25663.1 GI:14111725
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
UNCLASSIFIED.

REFERENCE 1 (bases 1 to 50)
AUTHORS Janjic,N., Gold,L. and Tasset,D.
TITLE High affinity ligands of basic fibroblast growth factor and thrombin

JOURNAL Patent: US 6177557-A 5 23-JAN-2001;
FEATURES Location/Qualifiers
source 1..50
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN

Query Match 17.8%; Score 16.6; DB 6; Length 50;
Best Local Similarity 71.0%; Pred. No. 2.6e+05;
Matches 22; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 49 CACTATCGGAATGTGACTGTGGGCTCCAG 79
||||| ||| || ||||| ||| |||
Db 20 CACTATAGGGAGATGCTGTGCGAGCATGCTG 50

RESULT 10

147075
LOCUS 147075 50 bp DNA linear PAT 07-
OCT-1997
DEFINITION Sequence 5 from patent US 5639868.
ACCESSION 147075
VERSION 147075.1 GI:2471040
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
UNCLASSIFIED.

REFERENCE 1 (bases 1 to 50)
AUTHORS Janjic,N. and Gold,L.
TITLE High-affinity RNA ligands for basic fibroblast growth factor

JOURNAL Patent: US 5639868-A 5 17-JUN-1997;
FEATURES Location/Qualifiers
source 1..50
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN

Query Match 17.8%; Score 16.6; DB 6; Length 50;
Best Local Similarity 71.0%; Pred. No. 2.6e+05;
Matches 22; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 49 CACTATCGGAATGTGACTGTGGGCTCCAG 79
||||| ||| || ||||| ||| |||
Db 20 CACTATAGGGAGATGCTGTGCGAGCATGCTG 50

RESULT 11

ARI149818/c
LOCUS ARI149818 47 bp DNA linear PAT 08-
AUG-2001
DEFINITION Sequence 19 from patent US 6228621.
ACCESSION ARI149818
VERSION ARI149818.1 GI:15114409
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
UNCLASSIFIED.

REFERENCE 1 (bases 1 to 47)
AUTHORS Williams,W.V., Madaio,M. and Weiner,D.B.
TITLE Plasmids encoding immunogenic proteins and intracellular targeting

sequences
JOURNAL Patent: US 6228621-A 19 08-MAY-2001;
FEATURES Location/Qualifiers
source 1..47
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN

Query Match 17.6%; Score 16.4; DB 6; Length 47;
Best Local Similarity 60.5%; Pred. No. 3.1e+05;
Matches 23; Conservative 2; Mismatches 13; Indels 0; Gaps 0;

Qy 55 CGGAATGTGACTGTGGGCTCCAGAAACATTGAGGT 92
||: ||: || || ||||| || || |||||
Db 46 CAGRYTGTGCGACCTGGACCTCTGATGAGATTAGAT 9

RESULT 12

AR289717/c
LOCUS AR289717 47 bp DNA linear PAT 12-
JUN-2003
DEFINITION Sequence 1452 from patent US 6537751.
ACCESSION AR289717
VERSION AR289717.1 GI:31677001
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.

Unclassified.
REFERENCE 1 (bases 1 to 47)
AUTHORS Cohen,D., Chumakov,I. and Blumenfeld,M.
TITLE Biallelic markers for use in constructing a high density disequilibrium map of the human genome
JOURNAL Patent: US 6537751-A 1452 25-MAR-2003;
FEATURES Location/Qualifiers
source 1..47
/organism="unknown"
/mol_type="genomic DNA"

ORIGIN

Query Match 17.6%; Score 16.4; DB 6; Length 47;
Best Local Similarity 67.6%; Pred. No. 3.1e+05;
Matches 23; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 20 CTCGCTGGGTGACAAATGCTTGGTTTCAACACTA 53
||||| || ||||| ||||| |||
Db 36 CTGCTTCCCTACRTATGCTTGGTTTCCATCCTA 3

RESULT 13

BD007169/c
LOCUS BD007169 47 bp DNA linear PAT 31-
JAN-2002
DEFINITION Improved vaccines.
ACCESSION BD007169
VERSION BD007169.1 GI:18635540
KEYWORDS JP 2001503260-A/14.
SOURCE unidentified
ORGANISM unidentified
UNCLASSIFIED.

REFERENCE 1 (bases 1 to 47)
AUTHORS Williams,W.V., Madaio,M. and Wehner,D.B.
TITLE Improved vaccines
JOURNAL Patent: JP 2001503260-A 14 13-MAR-2001;
THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA

OS Unknown
PN JP 2001503260-A/14
PD 13-MAR-2001
PF 23-OCT-1997 JP 1998519728
FR 23-OCT-1996 US 60/029592
FI WILLIAM V WILLIAMS, MICHAEL, MADAIO, DAVID B WEHNER PC
C12N15/09,A61K48/00//A61K39/00,C12N15/00
CC
FH Key Location/Qualifiers
FT source 1..47
FT /organism="Unknown".

FEATURES Location/Qualifiers
source 1..47
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"

ORIGIN

Query Match 17.6%; Score 16.4; DB 6; Length 47;
Best Local Similarity 60.5%; Pred. No. 3.1e+05;
Matches 23; Conservative 2; Mismatches 13; Indels 0; Gaps 0;

Qy 55 CGGAATGTGACTGTGGGCTCCAGAAACATTGAGGT 92
||: ||: || || ||||| || || |||||
Db 46 CAGRYTGTGCGACCTGGACCTCTGATGAGATTAGAT 9

RESULT 14

AX159152
LOCUS AX159152 50 bp DNA linear PAT 22-
JUN-2001
DEFINITION Sequence 2480 from Patent WO0140521.
ACCESSION AX159152
VERSION AX159152.1 GI:14540483
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
AUTHORS Shinkets,R.A. and Leach,M.
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
JOURNAL Patent: WO 0140521-A 2480 07-JUN-2001;
Curagen Corporation (US)

FEATURES Location/Qualifiers
source 1..50
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
misc_feature 25..26
/note="Nucleotide deleted between bases 25 and 26
Accession number cg39667412"
misc_feature 26
/note="2 of 2 allelic variants (2479 is other entry)"

ORIGIN

Query Match 17.6%; Score 16.4; DB 6; Length 50;
Best Local Similarity 61.9%; Pred. No. 3.2e+05;
Matches 26; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 37 CCTTGGTTTCAACACTATCGGAATGTGACTGTGGGCTTCCA 78
|| ||| || ||||| || || |||||
Db 9 CCATGGCGTGACACAGGGGACTGTCAATCACAGGCTTTCA 50

RESULT 15

AR078049/c
LOCUS AR078049 40 bp DNA linear PAT 31-
AUG-2000
DEFINITION Sequence 103 from patent US 5962272.
ACCESSION AR078049
VERSION AR078049.1 GI:10004795